

WHAT IS CLAIMED IS:

- 1                   1.       A connector assembly incorporated into an electrical device  
2 comprising:  
3                   a connector module having a connector port, a connector port holder and an  
4 electrical connection between said connector port and a circuit in said electrical device,  
5 wherein said connector port holder encloses said connector port and includes a locking tab;  
6                   a bracket incorporated into said electrical device which receives said  
7 connector port holder, wherein said bracket has a port hole through which said connector port  
8 is inserted and a locking tab hole through which said locking tab is inserted.
- 1                   2.       The connector assembly of claim 1 wherein said electrical device is a  
2 computer and said connector port is used for computer input or output.
- 1                   3.       The connector assembly of claim 2 further comprising of plurality of  
2 connector ports and locking tabs.
- 1                   4.       The connector assembly of claim 3 wherein said connector ports  
2 include a USB port, a high speed communications port, an audio port and a video port.
- 1                   5.       The connector assembly of claim 1 wherein said connector port holder  
2 is constructed of a hard, heat resistant plastic.
- 1                   6.       The connector assembly of claim 5 wherein said plastic is acrylonitrile-  
2 butadiene-styrene or poly vinyl chloride overmolded over polyethylene.
- 1                   7.       The connector assembly of claim 5 wherein said connector port holder  
2 is constructed of two halves.
- 1                   8.       The connector assembly of claim 7 wherein said connector port holder  
2 halves are joined together around said connector port through ultrasonic welding.
- 1                   9.       The connector assembly of claim 1 wherein said locking tab is at the  
2 end of a movable cantilever strip and includes an inclined leading edge.
- 1                   10.      The connector assembly of claim 1 wherein said bracket is constructed  
2 of metal.

1                   11.     The connector assembly of claim 10 wherein said bracket includes a  
2 metal extension which electromagnetically contacts to an adjacent electrical component.

1                   12.     The connector assembly of claim 10 wherein said connector port  
2 holder includes a metal tab which electromagnetically contacts both said connector port and  
3 said metal bracket.

1                   13.     A input/output connector assembly incorporated into a computer  
2 comprising:

3                   a plurality of connector modules each having a connector port for the input or  
4 output of electrical signals, a connector port holder and an electrical connection between said  
5 connector port and a circuit in said computer, wherein each said connector port holders  
6 encloses a connector port and includes a plurality of locking tabs;

7                   a metal bracket incorporated into said computer which firmly receives each  
8 said connector port holder, wherein said bracket has a plurality of port holes through which  
9 said connector ports are inserted and a plurality of locking tab holes through which said  
10 locking tabs are inserted.

1                   14.     The input/output connector assembly of claim 13 wherein said  
2 connector port holder is constructed in two halves from acrylonitrile-butadiene-styrene.

1                   15.     The input/output connector assembly of claim 13 wherein said  
2 plurality of connector ports includes two USB ports, an IEEE 1394 high speed  
3 communications port, an audio in port, an audio out port, a microphone port, an RCA video  
4 port and an S-video port.

1                   16.     The input/output connector assembly of claim 13 wherein said bracket  
2 includes a metal extension which electromagnetically connects to an adjacent electrical  
3 component and a metal tab on at least one of said connector port holders which  
4 electromagnetically contacts both said connector port and said metal bracket.

1                   17.     A method of assembling an input or output connector port onto a  
2 computer comprising:

3                   selecting a metal bracket which has a port hole for receiving a connector port  
4 and a locking tab hole;

5                   attaching an input or output connector port to one end of an electrical wire;  
6                   inserting said connector port into a plastic connector port holder which  
7 includes a locking tab at the end of a movable cantilever strip;  
8                   inserting said connector port holder into said bracket so that said connector  
9 port protrudes through said connector port hole and said locking tab protrudes through said  
10 locking tab hole;  
11                  connecting said metal bracket to a chassis within said computer; and,  
12                  connecting the other end of said electrical wire to an appropriate circuit within  
13 said computer.

1                   18.     The assembly method of claim 17 further comprising a plurality of port  
2 holes, connector ports, connector port holders and locking tabs.

1                   19.     The assembly method of claim 18 wherein said connector ports include  
2 a USB port, a high speed communications port, an audio port and a video port.

1                   20.     The assembly method of claim 18 wherein said connector port holders  
2 are formed by injection molding said holder in two halves from a hard, heat resistant plastic,  
3 placing said connection port attached to said wire between said two connector port holder  
4 halves and then joining the two connector port holder halves together through ultrasonic  
5 welding.

1                   21.     An input/output connector assembly constructed by the method of  
2 claim 17.

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